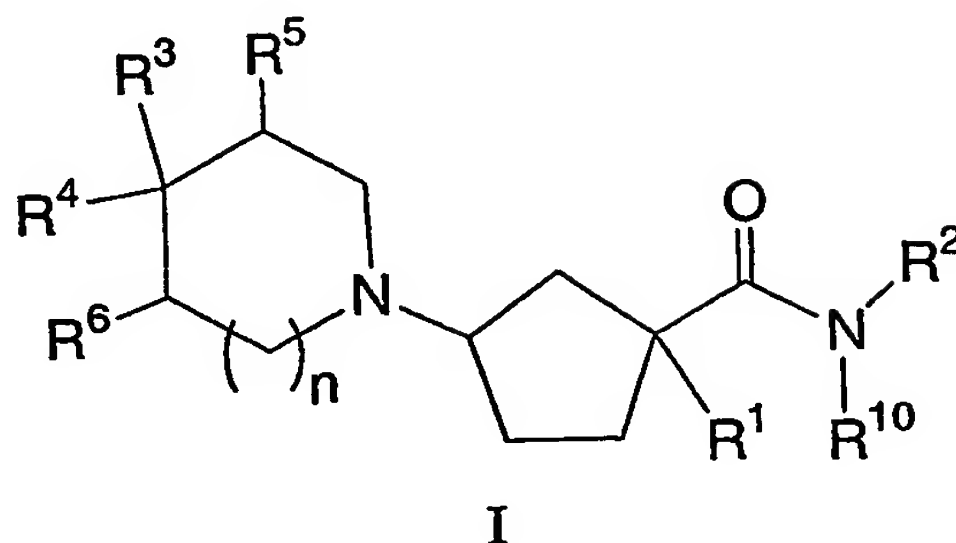


WHAT IS CLAIMED IS:

1. A compound of the formula I:



wherein:

R¹ is selected from:

hydrogen,

-C₀-6alkyl-Y-(C₁-6alkyl)-, and

-(C₀-6alkyl)-Y-(C₀-6alkyl)-(C₃-7cycloalkyl)-(C₀-6alkyl),

where Y is selected from:

a single bond, -O-, -S-, -SO-, -SO₂-, and -NR¹⁰-,

and where the alkyl and the cycloalkyl are unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:

(a) halo,

(b) hydroxy,

(c) -O-C₁-3alkyl, and

(d) trifluoromethyl,

(e) C₁-3alkyl,

(f) -O-C₁-3alkyl,

(g) -CO₂R⁹, wherein R⁹ is independently selected from: hydrogen, C₁-6 alkyl, C₅-6 cycloalkyl, benzyl or phenyl, which is unsubstituted or substituted with 1-3 substituents where the substituents are independently selected from: halo, C₁-3alkyl, C₁-3alkoxy and trifluoromethyl,

(h) -CN,

(i) heterocycle,

(j) -NR⁹R¹⁰,

(k) -NR⁹COR¹⁰,

(l) -NR⁹SO₂R¹⁰, and

(m) -CONR⁹R¹⁰;

R² is selected from:

(C₀-6alkyl)-phenyl and (C₀-6alkyl)-heterocycle,

5 where the alkyl is unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:

- (a) halo,
- (b) hydroxy,
- (c) -O-C₁-3alkyl,
- 10 (d) trifluoromethyl, and
- (e) -C₁-3alkyl,

and where the phenyl and the heterocycle is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:

- (a) halo,
- 15 (b) trifluoromethyl,
- (c) trifluoromethoxy,
- (d) hydroxy,
- (e) C₁-6alkyl,
- (f) C₃-7cycloalkyl,
- 20 (g) -O-C₁-6alkyl,
- (h) -O-C₃-7cycloalkyl,
- (i) -SCF₃,
- (j) -S-C₁-6alkyl,
- (k) -SO₂-C₁-6alkyl,
- 25 (l) phenyl,
- (m) heterocycle,
- (n) -CO₂R⁹,
- (o) -CN,
- (p) -NR⁹R¹⁰,
- 30 (q) -NR⁹-SO₂-R¹⁰,
- (r) -SO₂-NR⁹R¹⁰, and
- (s) -CONR⁹R¹⁰;

R³ is selected from:

(C₀₋₆alkyl)-heterocycle,

where the alkyl is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:

- (a) halo,
- (b) hydroxy,
- (c) -O-C₁₋₃alkyl, and
- (d) trifluoromethyl,

and where the heterocycle is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:

- (a) halo,
- (b) trifluoromethyl,
- (c) hydroxy,
- (d) C₁₋₃alkyl,
- (e) -O-C₁₋₃alkyl,
- (f) -CO₂R⁹,
- (g) -CN,
- (h) -NR⁹R¹⁰, and
- (i) -CONR⁹R¹⁰;

R⁴ is selected from:

- (a) hydrogen,
- (b) hydroxy,
- (c) C₁₋₆alkyl,
- (d) C₁₋₆alkyl-hydroxy,
- (e) -O-C₁₋₃alkyl,
- (f) -CO₂R⁹,
- (g) -CONR⁹R¹⁰, and
- (h) -CN;

R⁵ and R⁶ are independently selected from:

- (a) hydrogen,
- (b) hydroxy,
- (c) C₁₋₆alkyl,
- (d) C₁₋₆alkyl-hydroxy,

- (e) -O-C₁₋₃alkyl,
- (f) oxo, and
- (g) halo;

5 R¹⁰ is independently selected from:
hydrogen, C₁₋₆ alkyl, benzyl, phenyl, and C₁₋₆ alkyl-C₃₋₆ cycloalkyl,
which is unsubstituted or substituted with 1-3 substituents where the substituents
are independently selected from: halo, C₁₋₃alkyl, C₁₋₃alkoxy and
trifluoromethyl;

10

n is an integer which is 0 or 1;

and pharmaceutically acceptable salts thereof and individual diastereomers thereof.

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2. The compound of Claim 1 wherein R¹ is selected from:
-C₁₋₆alkyl, -C₀₋₆alkyl-O-C₁₋₆alkyl-, -C₀₋₆alkyl-S-C₁₋₆alkyl-, and
-(C₀₋₆alkyl)-(C₃₋₇cycloalkyl)-(C₀₋₆alkyl),

where the alkyl and the cycloalkyl are unsubstituted or substituted with 1-7
substituents where the substituents are independently selected from:

20

- (a) halo,
- (b) hydroxy,
- (c) -O-C₁₋₃alkyl,
- (d) trifluoromethyl,
- (f) C₁₋₃alkyl,
- (g) -O-C₁₋₃alkyl,

25

- (h) -CO₂R⁹, wherein R⁹ is independently selected from: hydrogen, C₁₋₆
alkyl, C₅₋₆ cycloalkyl, benzyl or phenyl, which is unsubstituted or
substituted with 1-3 substituents where the substituents are independently
selected from: halo, C₁₋₃alkyl, C₁₋₃alkoxy and trifluoromethyl,

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- (i) -CN,
- (j) -NR⁹R¹⁰, and
- (k) -CONR⁹R¹⁰.

3. The compound of Claim 1 wherein R¹ is selected from:

- (1) -C₁₋₆alkyl, which is unsubstituted or substituted with 1-6 substituents where the substituents are independently selected from:
- (a) halo,
 - (b) hydroxy,
 - (c) -O-C₁₋₃alkyl, and
 - (d) trifluoromethyl,
- (2) -C₀₋₆alkyl-O-C₁₋₆alkyl-, which is unsubstituted or substituted with 1-6 substituents where the substituents are independently selected from:
- (a) halo, and
 - (b) trifluoromethyl,
- (3) -C₀₋₆alkyl-S-C₁₋₆alkyl-, which is unsubstituted or substituted with 1-6 substituents where the substituents are independently selected from:
- (a) halo, and
 - (b) trifluoromethyl,
- (4) -(C₃₋₅cycloalkyl)-(C₀₋₆alkyl), which is unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:
- (a) halo,
 - (b) hydroxy,
 - (c) -O-C₁₋₃alkyl, and
 - (d) trifluoromethyl.

4. The compound of Claim 1 wherein R¹ is selected from:

- (1) -CH₃,
- (2) -CH₂CH₃,
- (3) -CH(CH₃)₂,
- (4) -CH₂CH₂CH₃,
- (5) -CH₂CH(CH₃)₂,
- (6) -cyclopropyl,
- (7) -cyclobutyl,
- (8) -cyclopentyl,
- (9) -CH₂-cyclopropyl,
- (10) -CH₂-cyclobutyl,
- (11) -CH₂-cyclopentyl,
- (12) -CH₂OH,

- 5
- (13) $-\text{C}(\text{CH}_3)_2(\text{OH})$,
 (14) $-\text{C}(\text{CH}_2\text{OH})(\text{CH}_3)_2$,
 (15) $-(\text{OH})\text{cyclobutyl}$,
 (16) $-(\text{OH})\text{cyclopentyl}$,
 (17) $-\text{C}(\text{CH}_3)_2(\text{NHCOCH}_3)$,
 (18) $-\text{C}(\text{CO}_2\text{H})(\text{CH}_3)_2$,
 (19) $-\text{O}-\text{CH}_3$,
 (20) $-\text{O}-\text{cyclopentyl}$,
 (21) $-\text{O}-\text{CH}(\text{CH}_3)_2$,
 10 (22) $-\text{S}-\text{CH}_3$,
 (23) $-\text{S}-\text{CF}_3$,
 (24) $-\text{SO}_2-\text{CH}_3$,
 (25) $-\text{S}-\text{CH}(\text{CH}_3)_2$,
 (26) $-\text{SO}_2-\text{CH}(\text{CH}_3)_2$, and
 15 (27) $-\text{NH}-\text{SO}_2-\text{CH}_3$.

5. The compound of Claim 1 wherein R^2 is selected from:
 $-(\text{C}_{0-4}\text{alkyl})\text{-phenyl}$ and $-(\text{C}_{0-4}\text{alkyl})\text{-heterocycle}$,
 where heterocycle is selected from:

20 furanyl, imidazolyl, oxadiazolyl, oxazolyl, pyrazolyl, pyrazinyl, pyridyl,
 pyridazinyl, pyrimidyl, pyrrolyl, thiadiazolyl, thiazolyl, thienyl, and triazolyl, and
 N-oxides thereof,

where the alkyl is unsubstituted or substituted with 1-7 substituents where the
 substituents are independently selected from:

- 25 (a) halo,
 (b) hydroxy,
 (c) $-\text{O}-\text{C}_{1-3}\text{alkyl}$, and
 (d) trifluoromethyl,

and where the phenyl or heterocycle is unsubstituted or substituted with 1-5 substituents
 where the substituents are independently selected from:

- 30 (a) halo,
 (b) trifluoromethyl,
 (c) trifluoromethoxy,
 (d) hydroxy,

- 5
- (e) C₁₋₃alkyl,
(f) -O-C₁₋₃alkyl,
(g) -CO₂R⁹,
(h) -S-C₁₋₃alkyl,
(i) -SO₂-C₁₋₃alkyl,
(j) -SCF₃,
(k) -CO₂R⁹,
(l) -NR⁹R¹⁰,
(m) -NR⁹-SO₂-R¹⁰,
10 (n) -SO₂-NR⁹R¹⁰, and
(o) -CONR⁹R¹⁰.

15 6. The compound of Claim 1 wherein R² is selected from:
-(C₀₋₄alkyl)-phenyl and -(C₀₋₄alkyl)-heterocycle,
where heterocycle is selected from: pyridyl, pyridazinyl, and N-oxides thereof,
where the alkyl is unsubstituted or substituted with 1-7 substituents where the
substituents are independently selected from:

- 20 (a) halo,
(b) hydroxy,
(c) -O-C₁₋₃alkyl, and
(d) trifluoromethyl,

and where the phenyl or heterocycle is unsubstituted or substituted with 1-3 substituents
where the substituents are independently selected from:

- 25 (a) halo,
(b) trifluoromethyl,
(c) trifluoromethoxy,
(d) hydroxy,
(e) C₁₋₃alkyl,
(f) -O-C₁₋₃alkyl,
30 (g) -CO₂-C₁₋₃alkyl,
(h) -CO₂H,
(i) -S-C₁₋₃alkyl,
(j) -SO₂-C₁₋₃alkyl,
(k) -SCF₃,

- (l) -NH₂,
- (m) -NH-SO₂-C₁₋₃alkyl, and
- (n) -SO₂-NH₂.

5 7. The compound of Claim 1 wherein R² is selected from:
-CH₂-phenyl and -CH₂-heterocycle,
where heterocycle is selected from: pyridyl, pyridazinyl, and N-oxides thereof,
and where the phenyl or heterocycle is unsubstituted or substituted with 1-3 substituents
where the substituents are independently selected from:

- 10 (a) halo,
- (b) trifluoromethyl,
- (c) trifluoromethoxy,
- (d) hydroxy,
- (e) C₁₋₃alkyl,
- 15 (f) -O-C₁₋₃alkyl,
- (g) -CO₂-C₁₋₃alkyl,
- (h) -CO₂H,
- (i) -S-C₁₋₃alkyl,
- (j) -SO₂-C₁₋₃alkyl,
- 20 (k) -SCF₃,
- (l) -NH₂,
- (m) -NH-SO₂-C₁₋₃alkyl, and
- (n) -SO₂-NH₂.

25 8. The compound of Claim 1 wherein R² is selected from:

- (1) -CH₂-(phenyl),
- (2) -CH₂-(4-bromophenyl),
- (3) -CH₂-(3-chlorophenyl),
- (4) -CH₂-(3,5-difluorophenyl),
- 30 (5) -CH₂-((2-trifluoromethyl)phenyl),
- (6) -CH₂-((3-trifluoromethyl)phenyl),
- (7) -CH₂-((4-trifluoromethyl)phenyl),
- (8) -CH₂-((3-trifluoromethoxy)phenyl),
- (9) -CH₂-((3-trifluoromethylthio)phenyl),

- 5
- (10) -CH₂-((3-trifluoromethoxy-5-thiomethyl)phenyl),
 (11) -CH₂-((3-trifluoromethoxy-5-methoxy)phenyl),
 (12) -CH₂-((3-trifluoromethoxy-5-methanesulfonyl)phenyl),
 (13) -CH₂-((3-trifluoromethoxy-5-amino)phenyl),
 (14) -CH₂-((3-trifluoromethoxy-5-aminomethanesulfonyl)phenyl),
 (15) -CH₂-((3-trifluoromethoxy-5-sulfonylamino)phenyl),
 (16) -CH₂-((3,5-bis-trifluoromethyl)phenyl),
 (17) -CH₂-((3-fluoro-5-trifluoromethyl)phenyl),
 (18) -CH(CH₃)-((3,5-bis-trifluoromethyl)phenyl),
 10 (19) -C(CH₃)₂-((3,5-bis-trifluoromethyl)phenyl),
 (20) -CH₂-(4-(2-trifluoromethyl)pyridyl),
 (21) -CH₂-(5-(3-trifluoromethyl)pyridyl),
 (22) -CH₂-(5-(3-trifluoromethyl)pyridazinyl),
 (23) -CH₂-(4-(2-trifluoromethyl)pyridyl-N-oxide), and
 15 (24) -CH₂-(5-(3-trifluoromethyl)pyridyl-N-oxide).

9. The compound of Claim 1 wherein R³ is heterocycle,
 where the heterocycle is selected from: imidazole, pyrimidyl, triazole or tetrazole, and
 where the heterocycle is unsubstituted or substituted with 1-5 substituents where the
 20 substituents are independently selected from:

- 25
- (a) halo,
 (b) trifluoromethyl,
 (c) hydroxy,
 (d) C₁₋₃alkyl,
 (e) -O-C₁₋₃alkyl,
 (f) -CO₂R⁹,
 (g) -CN,
 (h) -NR⁹R¹⁰, and
 (i) -CONR⁹R¹⁰.

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10. The compound of Claim 1 wherein R³ is heterocycle,
 where the heterocycle is unsubstituted or substituted with 1-3 substituents where the
 substituents are independently selected from:

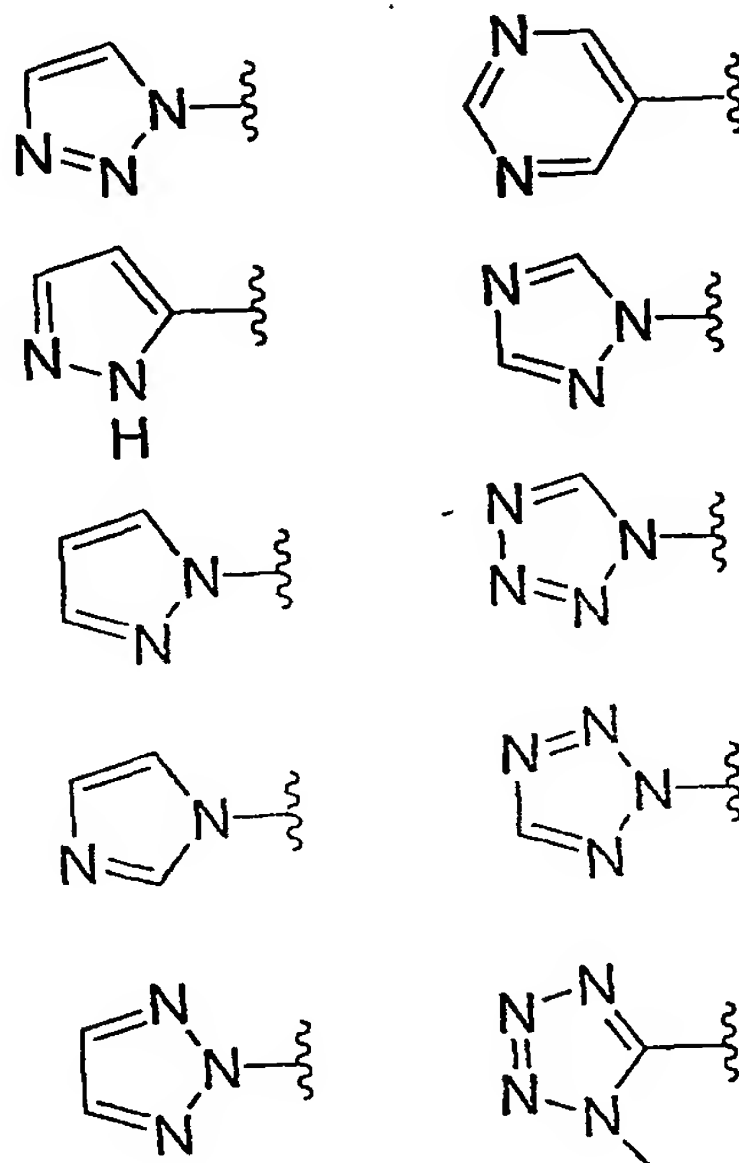
- (a) halo,

- (c) hydroxy,
- (d) C₁-3alkyl,
- (e) -O-C₁-3alkyl, and
- (f) -CO₂R⁹.

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11. The compound of Claim 1 wherein R³ is selected from: imidazole, pyrimidyl, triazole or tetrazole.

12. The compound of Claim 1 wherein R³ is selected from:



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13. The compound of Claim 1 wherein R⁴ is selected from:

- (a) hydrogen,
- (b) hydroxy,
- (c) -CO₂H,
- (d) -CO₂C₁-6alkyl,
- (e) -CN.

15

14. The compound of Claim 1 wherein R⁴ is hydrogen.

15. The compound of Claim 1 wherein R⁵ and R⁶ are independently selected from:

- (a) hydrogen,
- (b) hydroxy,
- (c) -CH₃,
- (d) -O-CH₃, and
- (e) oxo.

16. The compound of Claim 1 wherein R⁵ is independently selected from:

- (a) hydrogen,
- (b) -CH₃, and
- (c) -O-CH₃.

17. A compound which is selected from the group consisting of the title compounds of the Examples, and pharmaceutically acceptable salts and individual diastereomers thereof.

18. A pharmaceutical composition which comprises an inert carrier and a compound of Claim 1.

19. A method for modulation of chemokine receptor activity in a mammal in need thereof which comprises the administration of an effective amount of the compound of Claim 1.

20. A method for treating, ameliorating or controlling an inflammatory or immunoregulatory disorder or disease which comprises administering to a patient in need thereof an effective amount of the compound of Claim 1.

21. A method for reducing the risk of an inflammatory or immunoregulatory disorder or disease which comprises administering to a patient in need thereof an effective amount of the compound of Claim 1.

22. A method for treating, ameliorating or controlling rheumatoid arthritis which comprises administering to a patient in need thereof an effective amount of the compound of Claim 1.